



3800 Frederica Street P.O. Box 20008 Owensboro, KY 42304-0008 270/926-8686

July 27, 2009

Kentucky Division of Water Surface Water Permits Branch Permit Support Section 200 Fair Oaks Frankfort, Kentucky 40601

RE:

Texas Gas Transmission, LLC

Dixie Compressor Station KPDES No. KY0099562 Henderson County, Kentucky

Dear Sir or Madam:

Enclosed is the application for the renewal of the above-referenced permit. Also, enclosed is Check Number 036540 in the amount of \$200.00 in payment of the filing fee.

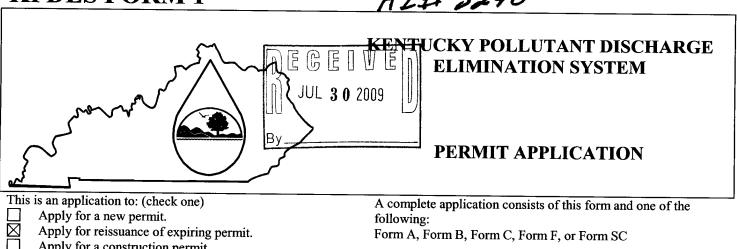
Please call me at (270) 688-6953 or e-mail me at <u>Doug.Webster@bwpmlp.com</u> if you have any questions.

Sincerely,

Doug Webster

Senior Environmental Specialist

AZ# 3240



Apply for a new permit.	following:
Apply for reissuance of expiring permit.	Form A, Form B, Form C, Form F, or Form SC
Apply for a new permit. Apply for reissuance of expiring permit. Apply for a construction permit. Modify an existing permit	, , , , , , , , , , , , , , , , , , , ,
Modify an existing permit.	For additional information contact:
	AGENCY
	AGENCY O O O O -
I. FACILITY LOCATION AND CONTACT INFORMATION	
A. Name of Business, Municipality, Company, Etc. Requesting Perm Texas Gas Transmission, LLC	it
B. Facility Name and Location	C. Primary Mailing Address (all facility correspondence will be sent to this address). Include owner's mailing address (if different) in D.
Facility Location Name:	Facility Contact Name and Title: Mr. Ms.
Pinis Company	
Dixie Compressor Station	Doug Webster
Facility Location Address (i.e. street, road, etc., not P.O. Box):	Mailing Address:
6321 KY 145	3800 Frederica Street
Facility Location City, State, Zip Code:	Mailing City, State, Zip Code:
Corydon, KY 42406	
D. Owner's name (if not the same as in part A and C):	Owensboro, Kentucky 42301
Texas Gas Transmission, LLC	Facility Contact Telephone Number:
	270-688-6953
Owner's Mailing Address: 3800 Frederica Street	Owner's Telephone Number (if different):
Owensboro, KY 42301	270-926-8686
II. FACILITY DESCRIPTION	
A. Provide a brief description of activities, products, etc: Natural ga	is compressor station
D. Standard Industrial Classic (GIG) C. 1. 15	
B. Standard Industrial Classification (SIC) Code and Description	
Principal SIC Code &	
Description: 4922 - Transmission of Natural Gas	S
Other SIC Codes:	
III EACH ITM LOCATION	

III. FACILITY LOCATION						
A. Attach a U.S. Geological Survey 7 ½ minute quadrangle map for the site. (See instructions)						
B. County where facility is located: City where facility is located (if applicable):						
Henderson	Corydon					
C. Body of water receiving discharge: Beaver Dam Creek						
D. Facility Site Latitude (degrees, minutes, seconds):	Facility Site Longitude (degrees, minutes, seconds):					
37 degrees 40 minutes 14 seconds	87 degrees 40 minutes 09 seconds					
E. Method used to obtain latitude & longitude (see instructions):	USGS Topographic Map					
F. Facility Dun and Bradstreet Number (DUNS #) (if applicable):	06-168-7421					

IV. OWNER/OPERATOR INFORMA	TION			
A. Type of Ownership:	1 🖂 🙃	75 45 44 45		
Publicly Owned ☐ Privately Ow		Both Public and Pr	ivate Owned Federally owned	
Name of Treatment Plant Operator:	structions)	Telephone Number:		
NA		NA NA		
Operator Mailing Address (Street): NA				
Operator Mailing Address (City, State, Zip Code):				
Is the operator also the owner?		Is the operator certified	? If yes, list certification class and number below.	
Yes No			in yes, list certification class and number below.	
Certification Class:		Certification Number:		
NA		NA		
V. EXISTING ENVIRONMENTAL PE	ERMITS			
Current NPDES Number:	Issue Date of Current Per	nit:	Expiration Date of Current Permit:	
KY0099562	May 01, 2005		April 30, 2010	
Number of Times Permit Reissued:	Date of Original Permit Is	suance:	Sludge Disposal Permit Number:	
Unknown	Unknown		NA	
Kentucky DOW Operational Permit #:	Kentucky DSMRE Permit	Number(s):	11/2	
NA	NA NA		NA	
Which of the following additional environ	mental permit/registratio	n categories will also	apply to this facility?	
CATEGORY	EXISTING PER	RMIT WITH NO.	PERMIT NEEDED WITH PLANNED APPLICATION DATE	
Air Emission Source	G-04-001 Revision 1		NA	
Solid or Special Waste	NA		NA	
Hazardous Waste - Registration or Permit	KYD000828582		NA	
VI. DISCHARGE MONITORING REI	PORTS (DMRs)			
mailing address (if different from the prim	s to specifically identify ary mailing address in Se	the name and telepho	regular schedule (as defined by the KPDES one number of the DMR official and the DMR	
A. DMR Official (i.e., the department designated as responsible for submitti Division of Water):	, office or individual ing DMR forms to the			
		Environmental Con	pliance and Remediation (Doug Webster)	
DMR Official Telephone Number:		270-688-6953		
 B. DMR Mailing Address: Address the Division of Water wi Contact address if another individ 	ll use to mail DMR form ual, company, laboratory	s (if different from m	nailing address in Section I.C), or Rs for you; e.g., contract laboratory address.	
DMR Mailing Name:	Mr. Doug Webster			
DMR Mailing Address:	3800 Frederica Street			
DMR Mailing City, State, Zip Code:	Owensboro, KY 42301			

VII	ΔPI	DI IC	A TI	ON	FII	INC	FEE
V 11.	ALI		AH	UIV.	7	/	rr,r,

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount (for permit renewals, please include the KPDES permit number on the check to ensure proper crediting). Descriptions of the base fee amounts are given in the "General Instructions."

Facility Fee Category:		Filing Fee Enclosed:	***
Non-Process Industry	<i>ν</i>	\$200	

VIII. CERTIFICATION

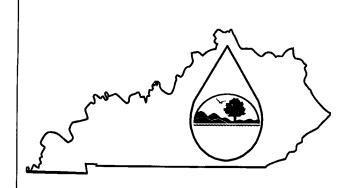
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Mr. Ms. David Goodwin; VP Compliance and Ops Services	713-479-8235
SIGNATURE	DATE:
Del Soli	7/24/09

Return completed application form and attachments to: KPDES Branch, Division of Water, Frankfort Office Park, 14 Reilly Road, Frankfort, KY 40601. Direct questions to: KPDES Branch at (502) 564-3410.

KPDES FORM F





KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

A complete application consists of this form and Form 1. For additional information, Contact KPDES Branch, (502) 564-3410.

I. OUTFALL LOCATION	AGENC			0	4	9	5	10	3			
For each outfall list the latitud	ocation to th	e nearest 15	seconds a	and nan	ne the	receivi	ng wate	r.	-			
A. Outfall Number	A. Outfall Number B. Latitude			C. Longitude				D. Receiving Water (name)				
001	37 deg	40'	14"	87 deg	87 deg 40' 09"		Bea	Beaver Dam Creek				
		-										
***************************************		L										
II. IMPROVEMENTS												

A. Are you now required by any federal, state, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

I. Identification of Conditions, Agreements, Etc.	No.	2. Affected Outfalls Source of Discharge	3. Brief Description of Project		Compliance Date b. proj.
N/A	NA	NA	NA	NA	NA
					
	<u> </u>				

B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. SITE DRAINAGE MAP

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each know past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage of disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

	TIVE DESCRIPTION OF POLLUTA ach outfall, provide an estimate		ta) of imperv	ious surfaces (including nove	d areas and building roofs)
	the outfall, and an estimate of the				u areas and building 1001s)
Outfall	Area of Impervious	Total Area Drained	Outfall	Area of Impervious	Total Area Drained
Number	Surface (provide units)	(provide units)	Number	Surface (provide units)	(provide units)
001	Outfall 001 is for the		NA	NA	NA
	discharge of water from the hydrostatic testing of natura				ĺ
	gas pipeline within the facility				
	boundaries.				
dispose manag	e a narrative description of sign and in a manner to allow exposement practices employed to number and the location, manner, and from the forment F-1.	ure to storm water; me ninimize contact by the	ethod of trea	tment, storage, or disposal; with storm water runoff; ma	past and present materials terials loading and access
See Attach					
polluta	ch outfall, provide the location in storm water runoff; and mance for control and treatment	a description of the trea	atment the st	orm water receives, including	g the schedule and type of
Outfa Numb	11		atment		List Codes from Table F-1
001		ctural or non-structural	· ·		XX
L					
	ORM WATER DISCHARGES	4C-11/-) 1 141-	:1:4:	. 1 1	1.0 4 0
storm water	y under penalty of law that the r discharges, and that all non-stop application for the outfall.				
	ficial Title (type or print)	Signature			Date Signed
David Goo Services	odwin -VP Compliance & Ops	\sim 0)	\ 1	•	7/2/
Services		land 1	Desch.	$\overline{}$	1/24/09
a test.	e a description of the method us				e directly observed during
No testing of	conducted. Certification based	on historical evaluation	s of the static	on for KPDES program.	
VI SICNIEI	CANTIFAKS OD SDILLS				
	CANT LEAKS OR SPILLS sting information regarding the	history of significant le	aks or snille	of toxic or hazardous nothitor	its at the facility in the last
three years,	including the approximate date	and location of the spil	l or leak, and	I the type and amount of mate	rial released.
See Attachr				type mas amount of finite	

provided. Tables F-1, F-2, and F E: Potential discharges not of currently use or manufacture as a	fore proceeding. Complete one se 3-3 are included on separate pages covered by analysis - is any toxic in intermediate or final product or is below)	c pollutant listed in Tall by product. (go to Section IX) (site siding), various metals in	ble F-2, F-3	, or F-4, a substance which you
VIII. BIOLOGICAL TOXICITY TES				
Do you have any knowledge or discharges or on a receiving water	reason to believe that any biologi er in relation to your discharge wit	ical test for acute or chi thin the last 3 years?	ronic toxicit	y has been made on any of your
Yes (list all such results belo	ow) 🛛 No ((go to Section IX)		
IX. CONTRACT ANALYSIS INFORMATION Were any of the analyses reported	MATION d in item VII performed by a cont	ract laboratory or consu	ılting firm?	
Yes (list the name, address and No (go to Section IX)	telephone number of, and pollutants analy	yzed by each such laboratory	or firm below;	use additional sheets if necessary).
A. Name	B. Address	C. Area Code & Pho	one No.	D. Pollutants Analyzed
X. CERTIFICATION				
with a system designed to assure of the person or persons who ma submitted is, to the best of my ki	at this document and all attachme that qualified personnel properly mage the system or those persons nowledge and belief, true, accura- uding the possibility of fine and in	gather and evaluate the directly responsible for te, and complete. I am	information or gathering aware that t	submitted. Based on my inquiry the information, the information here are significant penalties for
NAME & OFFICIAL TITLE (type or print)		AREA CO	DE AND PHONE NO.
David Goodwin -VP Compliance	re & Ons Services		(712) 470 (2725
SIGNATURE	w w ops bei rices		(713) 479-8 DATE SIG	
Dard &	sodi		7/24	109

VII. DISCHARGE I	NFORMATION		OUTFAI	L NO: 001		
Part A - You must pr details.	ovide the results of at le	east one analysis for eve	ery pollutant in this table	e. Complete one table	for each outfall. See	e instructions for additional
		m Values		ge Values		
Pollutant and	Grab Sample	le units)	Grab Sample	de units)	Number of	Sources of
CAS Number (if available)	Taken During 1st 20 Minutes	Flow-weighted Composite	Taken During 1st 20 Minutes	Flow-weighted Composite	Storm Events Sampled	Pollutants
	The permitted discharg	ge is a discharge from th	ne hydrostatic testing of n	atural gas pipeline withi	n the facility. No dis	charge has occurred;
Oil and Grease Biological	therefore Texas Gas ha	as no sample data.				
Oxygen Demand						
BOD ₅ Chemical Oxygen	-					
Demand (COD)						
Total Suspended Solids (TSS)						
Total Kjeldahl	1					
Nitrogen Nitrate plus	1					
Nitrite Nitrogen	1					
Total Phosphorus						
рН	Minimum	Maximum	Minimum	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Part B - List each pol	lutant that is limited in a	n effluent guideline whi	Minimum ich the facility is subject	Maximum to or any pollutant liste	d in the facility's KF	PDES permit for its process
wastewater (if the fa- requirements.	cility is operating under	r an existing KPDES 1	permit). Complete one	table for each outfall.	See the instructions	for additional details and
requirements.	Maximu	m Values		e Values		
Pollutant and	(includ Grab Sample	e units)	Grab Sample	le units)	Number of	Sources of
CAS Number (if available)	Taken During 1 st 20 Minutes	Flow-weighted Composite	Taken During 1st 20 Minutes	Flow-weighted Composite	Storm Events Sampled	Pollutants
N/A						
IVA					 	
)					

Part C - List each pollutant shown in Tables F-2, F-3, and F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall. Maximum Values Average Values (include units) (include units) Pollutant and **Grab Sample** Grab Sample Number of Taken During 1st **CAS Number** Flow-weighted Taken During 1st Flow-weighted Storm Events Sources of (if available) 20 Minutes Composite 20 Minutes Composite Sampled **Pollutants** N/A Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow-weighted composite sample. 6. Date of Duration of Total rainfall Number of hours Maximum flow Total flow from rain Storm Event Storm Event during storm between beginning of rate during event (gallons or (in minutes) event (in inches) storm measured and rain event specify units) end of previous (gal/min or measurable rain event specify units) NA NA NA NA NA NA 7. Provide a description of the method of flow measurement or estimate. NA

Comments

Texas Gas Transmission, LLC

Dixie Compressor Station

KPDES No.: KY0099562

Comment 1: Texas Gas requests that discharges from hydrostatic tests conducted within the station yard be re-permitted in accordance with the terms of existing permit KY0074837.

Comment 2: Confidence 10C is used as a corrosion inhibitor in the boiler water system. The boiler system typically operates as a closed loop. However, either via upsets or periodic draining of the boiler, boiler system water occasionally enters the wastewater collection system. This wastewater will be hauled off for proper treatment and disposal.

Comment 3: Engine cooling systems are typically operated as a closed loop system. Upsets of this system may introduce cooling water into the industrial wastewater collection system. Should this occur, the industrial wastewater will be hauled off for proper treatment and disposal.

Attachment F-1

Texas Gas Transmission, LLC

Dixie Compressor Station

KPDES No.: KY0099562

Section IV. Narrative Description of Pollutant Sources

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

The Dixie Compressor Station is not currently nor has it in the past three years treated, stored, or disposed of significant materials in a manner to allow exposure to stormwater. The station generates or utilizes and bulk stores various finished product materials for equipment operation in aboveground tanks, including scrubber fluid (natural gas condensate), lube oil, and ethylene glycol. In addition, smaller quantities of lube oils, mineral spirits, paints, pipe coating materials, soaps, and detergents are stored in 1 to 55 gallon containers at various locations on the site for routine station operations. Under normal operating conditions, these materials are securely stored in covered buildings or equipment sheds until use or disposal. Material storage, transfer, and use are currently addressed under the station's SPCC Plan, Groundwater Protection Plan, KPDES-required Best Management Plan (BMP), and RCRA Contingency Plan.

The majority of station natural gas transmission operations are conducted within a fenced area. Pesticides, herbicides, and soil conditioners or fertilizers, if utilized, are applied in accordance with product labels. Offices and other structures may be treated with pesticides on an as-needed basis. Where possible, all herbicides and fertilizers are applied by truck. In areas with limited access, these materials are applied by hand.

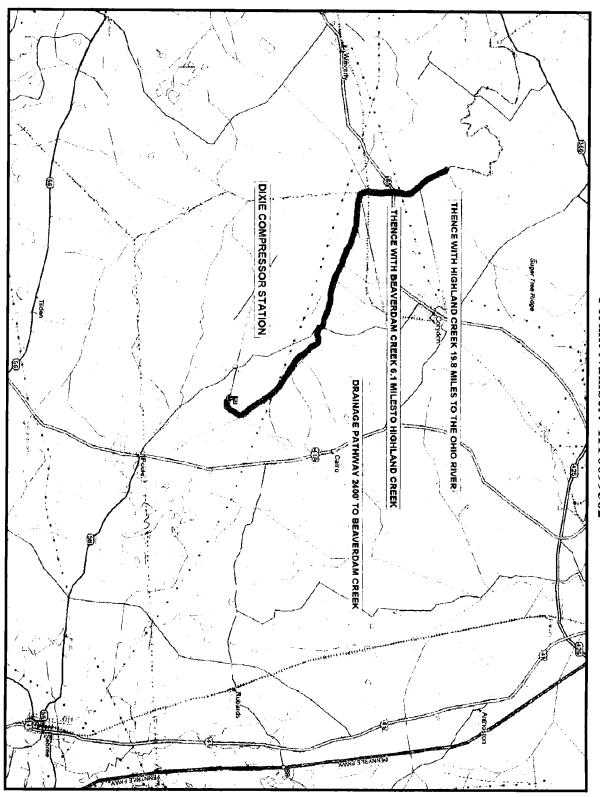
Section VI. Significant Leaks or Spills

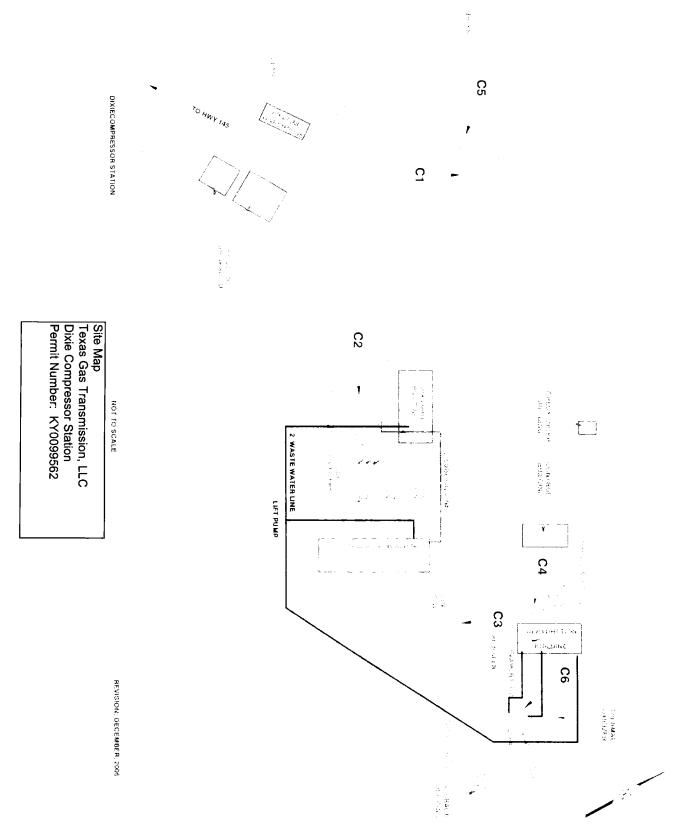
Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

There were no significant leaks or spills at the Dixie Compressor Station during the past three years.

SITE LOCATION AND DRAINAGE MAP

Texas Gas Transmission, LLC
Dixie Compressor Station
Permit Number: KY0099562





Site Specific Storage Activities Texas Gas Transmission, LLC Dixie Compressor Station Permit Number: KY0099562

Tank No.	Contents	Gallons	Secondary
			Containment
			Concrete Dike with
11	Gasoline	300	Concrete Floor
			Concrete Dike with
2	Diesel Fuel	300	Concrete Floor
			Concrete Dike with
3	Glycol	6,534	Concrete Floor
			Concrete Dike with
4	New Lube Oil	6,534	Concrete Floor
			Inside
5	New Lube Oil	1,615	Building
			Concrete Dike with
6	Pipeline Condensate	1,165	Concrete Floor
			Concrete Dike with
7	Glycol	2,741	Concrete Floor
			Concrete Dike with
8_	Methanol	4,230	Concrete Floor
			Concrete Dike with
9	Wastewater	3,620	Concrete Floor
			Concrete Dike with
10	Wastewater	3,620	Concrete Floor
			Concrete Dike with
11	Methanol	100	Concrete Floor
			Concrete Dike with
12	Odorant	105	Concrete Floor

NOTE: The location of these activities is shown on the "Site Map."

MATERIAL SAFETY DATA SHEET

Page Ravised 1 of 5 2/02/04

CONFIDENCE 10 C

Replaces Pminted 8/12/03 2/03/04

MSDS ID: 00935

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CONFIDENCE 10C

Product Descriptor: BOILER IREATMENT MANUFACTURER: JOHNSONDIVERSEY, INC.

3630 E. KEMPER ROAD CINCINNATI, OH. 45241 EMERGENCY PHONE NUMBER: (800)851-7145

II. HAZARDOUS COMPONENTS					
Component Name	CAS Number	\$	Exposure Limits	Units	
DIETHYLAMINO ETHANOL POTASSIUM HYDROXIDE SODIUM HYDROXIDE	100-37-8 1310-58-3 1310-73-2	1 - 5% 5 - 15% 1 - 5%	TWA 10 (kin) TWA - C 1 TLV-C	PPM MG/M3 MG/M3	
***	II. HAZARDS IDENT	IFICATION			

EMERGENCY OVERVIEW:

CORROSIVE - Contains strong alkali. Causes severe burn to skill and eyes. May be fatal if swallowed. Do not contact eyes, skin or clothing. Wear goggles, face shield, rubber gloves, and protective clothing and boots then handling product. Avoid breathing dust or spray mist. Contain spill or trunoff, which may cause environmental damage. Contact with aluminum or soft metals may release flammable hydrogen fumes.

POSSIBLE ROUTES OF ENTRY: All Routes of Entry/Exposure

SIGNS AND SYMPIOMS OF OVEREXPOSURE

ACUTE: E

EYES: Severe burns, tissue damage, or irritation with pain, swelling, blurred or impaired vision, blindness. SKIN: Severe burns, tissue destruction, blisters or rash with swelling and pain. INGESTION: May be fatal. Severe burns to mouth and throat may result with pain, gastric perforation and difficulty in swallowing or breathing. INHALATION: Spray or mists cause burns or severe irritation to nose, throat and respiratory tract with pain, choking, and experience difficulty in breathing.

CHRONIC: Same as acute effects.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Dermatitis, sensitive skin, pulmonary function and asthma.

TARGET ORGAN(S) OF CHEMICAL HAZARD(S): Eyes, skin, respiratory tract, and gastrointestinal tract.

IV. FIRST AID MEASURES

EYES:

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart to completely flush all chemicals from

entire eye surface. Get immediate medical attention.

SKIN:

Flush thoroughly with plenty of water. Wash with mild soap and water. Remove contaminated clothes and shoes and clean before

MATERIAL SAFETY DATA SHEET Page 2 of 5
Revised 2/02/04
Replaces 8/12/03
Painted 2/03/04

MSDS ID: 00935

CONFIDENCE 10 C

IV. FIRST AID MEASURES (Cont.)

reuse. Get medical attention for any painful, red or injured

skin.

INGESTION: If swallowed, rinse mouth with water. Dilute by dainking several

glasses of water. DO NOT induce vomiting. If patment vomits, rerinse mouth. Get immediate medical attention. MOIE: Never

give fluids by mouth to an unconscious person.

INHALATION: If inhaled, move to fresh air. If patient is not Mreathing, give

artificial respiration. If breathing is difficult give oxygen under the direction of trained personnel or a physician. Get

immediate medical attention.

V. FIRE FIGHTING MEASURES

FLAME EXTENSION: IN/A
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: NONE UEL: NONE
UNUSUAL FIRE OR EXPLOSIVE HAZARDS: Toxic fumes or vapor may foun during fire.
EXTINGUISHING MEDIA: Water, water spray, CO2, foam or dry powder.
FIRE FIGHTING INSTRUCTIONS: Wear full protective gear and positive pressure breathing apparatus SCBA) in fire area.
SPECIAL INSTRUCTIONS: Spilled product may cause slippery surface and fall hazard.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED:

Confine spilled product to prevent environmental contamination Keep out of storm sewers or surface waters. Small amount should be swept &r mopped up and used for related cleaning tasks where possible. Larger amounts should be absorbed on vermiculite, clay, etc., and disposed in accordance with local, State and Federal regulations.

This product does not contain a reportable quantity (RQ) under CERCLA.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: Store in a cool, dry area, keep away from acids. Keep container closed when not in use. Wear protective gear when handling or using. Do not pressurize container to empty.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: Face shields.

PROTECTIVE GLOVES: Alkali resistant.

RESPIRATORY PROTECTION: Product does not have any established exposure limits. NIOSH/MSHA approved respirator recommended in enclosed or confined spaces where high air concentration or long exposure may occur.

where high air concentration or long exposure may occur.

OTHER PROTECTIVE CLOTHING/EQUIPMENT: Wear chemical resistant agron when handling. Eyewash and safety shower in area if contact or splash hazard exists.

ENGINEERING CONTROLS:

VENTILATION: Good general ventilation should be sufficient to dontrol airborne

MATERIAL SAFETY DATA SHEET

3 of 5 Page 2/02/04 Revised 8/12/03 Replaces

CONFIDENCE 10 C

P#inted

2/03/04

MSDS ID: 00935

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont.

levels.

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Amber liquid, mild amine odor.

BOILING POINT (DEG F): 215

FREEZING POINT: D C

SPECIFIC GRAVITY/BULK DENSITY: 1.18

pH: 14.01

pH 1% SOLUTION: 12

VOLATILE BY VOLUME: 81.13 SOLUBILITY IN WATER: Soluble

VAPOR PRESSURE (mmHg): 17.5

at 20 C

VAPOR DENSITY: 17.3

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Product stable.

INCOMPATIBILITY WITH OTHER MATERIALS: Acids; Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion forms; oxides of

carbon; Dxides of sulfur; Oxides of nitrogen HAZARDOUS POLYMERIZATION: None known.

XI. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING: Toxicological testing has not been performed on the product. Listed below is the available moxicology test

data for components of the product.

TOXICITY TEST DATA:

Sodium Hydroxide:

Acute Oral LD50 (rat) 500 mg/kg (RIECS) Acute Skin LD50 (rabbit) 1350 mg/kg (MSI)

Potassium Hydroxide:

Acute Oral LD50 (rat) - 365 mg/kg (RTECS) Acute Skin LD50 (rabbit) - 1260 mg/kg (MSI

Diethylamino ethanol:

Intraperitoneal LD50 (rat) 1220 mg/kg Dermal LD50 1260 mg/kg (rabbit) Dermal LD50 (Guinea pig) 1000 mg/kg Oral LD50 (rat) 1300 mg/kg Intraperitoneal LD50 (mouse) 1561 mg/kg Intramuscular LD50 416 mg/kg (mouse) Subcutaneous LD50 (mouse) 308 mg/kg

XII. ECOLOGICAL INFORMATION

Toxicological testing has not been performed on the product. Histed below is the available toxicology test data for components of the product. ECOTOXICITY TEST DATA:

Potassium Hydroxide:

Acute LC50 (96 hr.) (Pimephles promelas) - 179 mg/l Acute LC50 (96 hr.) (Daphnia magna) - 60 mg/l

4 of MATERIAL SAFETY DATA SHEET ₽age 2/02/04 Revised 8/12/03 Replaces 2/03/04 Printed

MSDS ID: 00935

CONFIDENCE 10 C

XII. ECOLOGICAL INFORMATION (Cont.)

Diethylamino Ethanol:

LC50 (96 hr) (Pimephales promelas) 1780 mg/l

ENVIRONMENTAL FATE: No data available.

XIII. DISPOSAL CONSIDERATIONS

RCRA REGULATED: CONCENTRATED PRODUCT WOULD BE CONSIDERED D002 - CORROSIVE, IF DECLARED HAZARDOUS WASTE.

Spent or excess product is hazardous waste. Do not discharge sewer or environment. Arrange disposal through a licensed disposal commany or treat by special Waste Disposal Sheet. Recycle or dispose of containers by product labeling or governmental regulations.

XIV. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up 10 date shipping information.

XV. REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA: All ingredients in this product are on TSCA inventory.

HAPS: NONE

VOC CONTENT (EPA Method 24A): % VOC: 2.67 Lb/Gal VOC: 0.235

CERCLA/EPCRA:

Section 313 Toxic Chemicals:

NONE

SARA Section 311/312:

ACUTE: YES CHRONIC: NO FIRE:NO

REACTIVITY: NO

SUDDEN RELEASE OF PRESSURE:NO

LISTED CARCINGGEN: NONE

IARC: NO OSHA: NO NTP: NO

HMIS RATINGS: HEALTH: 3 FIRE: 0 REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: D

NFPA RATING: HEALTH: 3 REACTIVITY: 0 SPECIAL ALKALINE FIRE: 0

STATE RIGHT-TO-KNOW INFORMATION:

POTASSIUM HYDROXIDE - CAS #1310-58-3

SODIUM HYDROXIDE - CAS #1310-73-2

WATER - CAS #7732-18-5

SODIUM SULFITE - CAS #7757-83-7

DIETHYLAMINO ETHANOL - CAS #100-37-8

CALIFORNIA PROPOSITION 65:

None of the ingredients are on the California proposition 65 list.

XVI. OTHER INFORMATION

Disclaimer: The information contained in this material safety data sheet is based on the knowledge of this specific product and current nafional legislation. It applies to the product as sold, use dilutions may be less hazardous. It may not be valid for this material if used in combination with any other

	MATERIAL SAFETY DATA SHEET	Page Ravised	5 of 5 2/02/04
CONFIDENCE 10 C			8/12/03 2/03/04
MSDS ID: 00935			
	XVI. OTHER INFORMATION (Cont.)		

materials or in a process. It is the user's responsibility to evaluate the handling, and use.